

A Geospatial Decision Support System Toolkit, Phase I

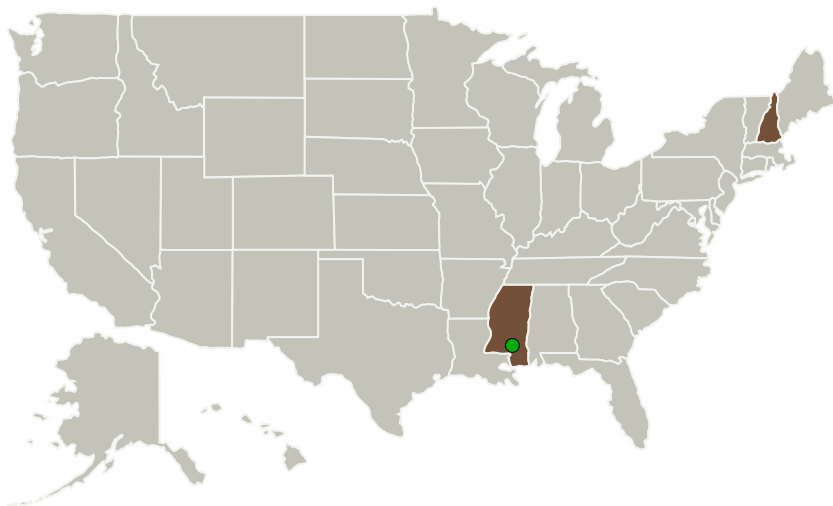
Completed Technology Project (2014 - 2014)



Project Introduction

We propose to design a working prototype Geospatial Decision Support Toolkit (GeoKit) that will enable scientists, agencies, and stakeholders to configure and deploy their own web based applications containing maps, forms, algorithms, and a rich set of functionality related to visualization, analysis, querying, and publication of geospatial data and information. GeoKit will focus on development of a suite of tools that will operate on data, to create rule-based applications for risk analysis, risk mitigation, operations management, and science research support. GeoKit will enhance the use of data from NASA and other sources, provide a tool for non-software developers to create a website with custom functions and tools that operate on geospatial data, and provide a framework for development of new tools to support risk assessment, risk management, and operational analysis of spatially-explicit data from NASA platforms, climate reanalyses, and user-defined sources, as well as allow real-time publication of results in standard geobrowser compatible formats.

Primary U.S. Work Locations and Key Partners



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Organizations Performing Work	Role	Type	Location
Applied Geosolutions, LLC	Lead Organization	Industry	Durham, New Hampshire
● Stennis Space Center(SSC)	Supporting Organization	NASA Center	Stennis Space Center, Mississippi

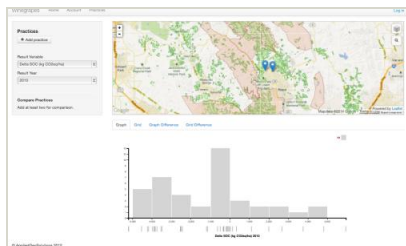
Primary U.S. Work Locations	
Mississippi	New Hampshire

Project Transitions

**June 2014:** Project Start**December 2014:** Closed out**Closeout Documentation:**

- Final Summary Chart(<https://techport.nasa.gov/file/140607>)

Images

**Briefing Chart**

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(<https://techport.nasa.gov/image/129714>)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Applied Geosolutions, LLC

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

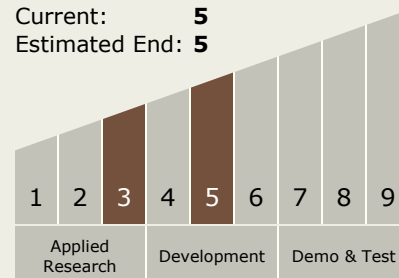
Bobby H Braswell

Technology Maturity (TRL)

Start: 3

Current: 5

Estimated End: 5



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Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.4 Information Processing
 - └ TX11.4.2 Intelligent Data Understanding

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System